

Claims

1. A playback apparatus that simultaneously performs playback of a title that includes a digital stream, and execution of an application, comprising:

a module operable to execute an application;

a playback control engine unit operable to play a digital stream that belongs to one of a plurality of titles; and

a module manager operable to control branching between the plurality of titles,

wherein the module includes a virtual machine unit and an application manager,

the virtual machine decodes the application, and performs instance generation and execution of the generated instance, and

when the instance exists in a work memory of the virtual machine unit, the application manager interprets the existence of the instance in the work memory as title playback continuing even if the application has terminated, and if a playback completion event is generated by the playback control engine unit, interprets the playback completion event as title playback having ended, and controls the module manager so as to select a next title.

2. The playback apparatus of Claim 1, wherein the module comprises:

a listener module operable to judge whether or not an event generated in response to a user operation is a key event corresponding to an application-oriented interface, and

a default processing unit operable to, when the event is a non-corresponding key event that is not a key event corresponding

to the application-oriented interface, instruct the playback control engine unit to perform processing that corresponds to the non-corresponding key event.

5 3. A program that causes a computer to simultaneously perform playback of a title that includes a digital stream, and execution of an application, wherein

 the computer has a virtual machine unit,

 the virtual machine unit decodes the application, and performs

10 instance generation and execution of the generated instance, and

 the program controls the computer such that, when the instance exists in a work memory of the virtual machine unit, the existence of the instance in the work memory is interpreted as title playback continuing even if the application has terminated, and if a playback

15 completion event is generated, the playback completion event is interpreted as title playback having ended, and a next title is selected.

4. A playback method that causes a computer to simultaneously

20 perform playback of a title that includes a digital stream, and execution of an application, wherein

 the computer has a virtual machine unit,

 the virtual machine unit decodes the application, and performs instance generation and execution of the generated instance, and

25 the program controls the computer such that, when the instance exists in a work memory of the virtual machine unit, the existence of the instance in the work memory is interpreted as title playback continuing even if the application has terminated, and if a playback

completion event is generated, the playback completion event is interpreted as title playback having ended, and a next title is selected.